

# **"OPERATION BRAINSTORM"**

**THE JUNIOR COLLEGE OF BROWARD COUNTY**







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**Junior College of Broward County**  
1450 SOUTHWEST 41ST COURT  
Fort Lauderdale, Florida

February 1, 1961

Dr. Joe B. Rushing, President  
Junior College of Broward County  
1450 S.W. 41st Court  
Fort Lauderdale, Florida

Dear Dr. Rushing:

In compliance with your assignment of November 15, 1960 the Committee on "Operation Brainstorm" has conducted a study of the program of the Junior College of Broward County. Based on its best professional judgment, the Committee has made certain recommendations regarding future developments of the institution. The attached report is a summary of some of the findings and recommendations extracted from the original report, a copy of which is on file in your office.

Sincerely yours,

*Rex C. Kidd*

Rex C. Kidd

RCK/af

**OPERATION BRAINSTORM COMMITTEE**

Mr. Stewart Brown  
Mr. Rex Brumley  
Mrs. Marina Burdick  
Dr. Robert C. Cassell  
Mr. Ralph Clark  
Mrs. Lee Dickerson  
Mr. Grady Drake  
Miss Mayme Hamlett  
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Miss Mildred Mullikin  
Mrs. Mary Paul  
Dr. Brooks Waggoner  
Dr. Rex C. Kidd, Chairman



Fort Lauderdale, Florida  
Broward County.

"OPERATION BRAINSTORM"

A Report

by

A Faculty Committee

The Junior College of Broward County

Fort Lauderdale, Florida

February 1, 1961

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Fort Lauderdale, Florida

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"OPERATION BRAINSTORM"

RECOMMENDATIONS OF PROGRAMS AND COURSES OF STUDY

I. University Parallel Programs

A. (In projecting the development of the Junior College of Broward County, the committee wishes to state that first consideration should be given to completing and strengthening the university parallel programs.) It recommends that the courses required for the following university parallel programs be included in the 1961-62 catalogue. If not in 1961-62, the courses are to be offered as soon as feasible.

1. Program leading to bachelor of arts degree.
2. Program leading to bachelor of science degree.
3. Program leading to degree in business administration.
4. Pre-medical, pre-dental, pre-medical technology, pre-nursing, and pre-pharmacy programs.
5. Pre-law program.
6. Pre-engineering program.
7. Pre-education programs; elementary and secondary education.

B. Further discussion: Plans for higher education in this area place upon junior colleges the responsibility for lower division college and university education. Therefore, it is of paramount importance that junior colleges develop university parallel programs which are equal in quality to any of those which exist as part of a college or university program. As the Junior College of Broward County

Mar 1963



develops, this fact should be kept in perspective and no developments should detract from quality education in this transfer program.

## II. Business, Technical, and Professional Programs.

- A. In Broward County, as in all communities, there will be individuals who wish to attend the Junior College of Broward County who do not desire to continue their formal education beyond the second year of college. Florida Law and State Board regulations place upon the junior college the responsibility of meeting the needs of these individuals. The Committee recommends compliance with State Board regulations and that programs be developed to meet the needs of the community as these are determined.
  1. From the Florida Employment Service, the Committee found that one of the greatest needs of this area is competent and well qualified secretaries.
  2. From the Administration of one of Broward County's large hospitals:
    - a. There is a definite need for nurses in this area. Many hospital programs for training nurses are being discontinued -- fewer are being added.
    - b. All hospital facilities, including psychiatric, would be available for needed clinical training if the Junior College of Broward County should develop a nursing program.
    - c. Generally, conditions are favorable in this area for the development of a nursing program as well as related programs such as medical assistants and medical technologists.



3. From Labor Market Trends published by Florida Industrial Commission: The East Coast from Palm Beach County to Dade County has developed rapidly as a manufacturing area in the last few years. Broward County, in particular, has developed rapidly in this respect, showing a 276.3 gain in the last ten years.
4. From Technical Education, Bulletin 79D-1, State Department of Education: The area, because of rapid development in manufacturing, employs a sizeable number of chemical, construction, drafting, electrical, electronic, and mechanical technicians and by 1962, the demand for such technicians will increase significantly. According to the report, Broward County will need 63 additional drafting, 45 electrical, 105 electronic, and 42 mechanical technicians.
5. From a limited report on high school seniors of this area, there is significant interest on the part of high school graduates in the fields of business, secretarial training, and nursing.

However, the Committee does not feel that sufficient information has been accumulated on which to base definite recommendations regarding a schedule of programs that should be developed. But it believes that the information is sufficient for suggesting a schedule for consideration and further study, definite recommendations regarding the programs to be made after a more thorough study is completed.



B. Business Administration

1. Pertinent factors for two-year programs in business administration and secretarial science.
  - a. Information gathered by the Committee indicates the need for business and secretarial programs.
    - (1) Broward County has expanded rapidly as a manufacturing area in the last ten years. Thus, the opportunities in business have increased.
    - (2) The need for well qualified secretaries is one of the greatest needs of this area.
    - (3) The limited information that the Committee has available relative to interests of high school seniors indicates that a number are interested in taking secretarial training or preparing for other areas in business.
  - b. The capital outlay for initiation of program would be minimum (approx. \$5,000 according to Head, Department of Business).
  - c. Only a few courses, other than those required for college parallel programs in business, would have to be added to the curriculum (five or six courses).
2. Recommendation: On the basis of the information available, the Committee recommends that a two-year program in business administration and a two-year program in secretarial science be among the first studied and considered as possible additions to offerings beyond college parallel programs. Plans should be made to offer the programs in 1961 or as soon thereafter as feasible.



C. A two-year program in nursing (RN).

1. Pertinent facts to consider:

- a. Information accumulated indicates there is a need for nurses in this area.
- b. Hospital facilities are available for the required clinical training.
- c. A number of the courses required in biology, chemistry, etc., are courses already included in the university parallel programs.
- d. Once a nursing program is established, addition of a few courses would make it possible to offer related programs such as those for training medical assistants and medical technologists.

2. Further study should be made to determine:

- a. Cost of initiating and continued operation of program.
- b. Experiences of other junior colleges with nursing programs.
- c. More definite commitment regarding availability of hospital facilities to carry on the program.
- d. The availability of grants of funds to initiate and carry on the program.

3. Recommendations: It is recommended that a nursing program be considered for initiation in 1963, a thorough study and investigation regarding the need and feasibility of such a program to be initiated in the near future.



- D. A two-year program for training electronic and mechanical technicians.
  - 1. Pertinent facts to consider:
    - a. Accumulated information shows that a number of electronic and mechanical technicians are employed in this area (Broward, Palm Beach, and Dade counties) and by 1962, approximately 635 more will be needed in electronics and 97 in mechanics.
    - b. A number of the courses required for the programs will be in the curriculum as part of university parallel programs.
    - c. Once basic courses for training electronics and mechanical technicians are established, related programs such as one for training instrument technicians can be introduced.
  - 2. Further study should be made to determine:
    - a. Definite need of such programs.
    - b. Cost of initiating and continued operation of the programs.
    - c. Experiences that other junior colleges have had with similar programs.
    - d. Funds which may be available from Foundations and other sources.
  - 3. Recommendation: That a program for training electronic and mechanical technicians be considered for initiation in 1962, and a thorough study regarding the need and the feasibility of these and related programs to be initiated in the near future.



- E. A program of training in the field of radio-broadcasting, station management, script writing, etc.
  - 1. Pertinent facts to consider:
    - a. Indications are that radio stations are willing to make facilities available and are willing to work with the Junior College in any way possible in developing a program in radio.
    - b. The program can be developed within existing departments.
  - 2. Further study should be made to determine:
    - a. Interests of students in engaging in such programs.
    - b. Employment possibilities for graduates.
    - c. A definite commitment regarding availability of facilities for program.
  - 3. Recommendation: That a program for training persons in the field of radio be further studied and investigated and consideration given to offering such a program within existing departments in 1962-63.
- F. A program for training persons in the field of television.  
Recommendation: That the college investigate the feasibility of initiating a program in television similar to the one in radio.
- G. A program for training Social Service Personnel.  
Recommendation: That a program for training Social Service Personnel be investigated and considerations be given to offering the program within existing departments in 1961-62.



H. A program for training law enforcement officers.

Recommendation: That a program for training law enforcement officers be studied as a possible offering at some future date.

I. Two-year programs in music.

Recommendation: The Committee recommends that consideration be given to the initiation of two-year programs in music in 1961-1962, programs to be based on the recommendations submitted by Miss McMillion. These recommendations are as follows:

1. Church music director or assistant.

2. Piano pedagogy.

J. A two-year general terminal program to be designated as non-transferrable was suggested but was rejected by a majority of the Committee present.

III. Recommended Departments and Courses to be Added to College Catalogue and to be Offered, if not in 1961, as Soon Thereafter as Possible.

A. The Committee recommends that a Department of Philosophy be added to the present curriculum; some of the following courses to be considered as possible offerings:

1. Introduction to philosophy

2. Logic

3. Ethics

4. Schools of philosophy

5. Philosophy of education

6. History of philosophy



B. Specific courses recommended as additions to catalogue for 1961.

1. Bacteriology
2. Comparative anatomy
3. Horticulture
4. Genetics
5. Organic chemistry
6. Qualitative analysis
7. Basic physics
8. Engineering drawing
9. Basic electronics
10. Descriptive geometry
11. Courses in music to meet the requirements of music majors and students in music education:
  - a. Music 211-12, Music Theory-Advanced Harmony
  - b. Music 215-16, Class Voice-Extending of repertoire with emphasis on French, German, and Italian Literature
  - c. Music 117-18, Class Piano-Fundamentals of Piano Technique and Easy Piano Literature (emphasis on teaching methods)
  - d. Music 217-18, Class Piano-Extending of repertoire to larger more difficult Piano Literature (emphasis on teaching techniques)
  - e. Music 118-19 and 218-19, Applied Voice
  - f. Music 120-21 and 220-21, Applied Piano literature (emphasis on teaching techniques)
  - g. Music appreciation for music majors with emphasis on technique structure of music



12. Art 107, Art Design
13. Art 208-09, Art History for majors
14. Art 203-04, Commercial Art
15. Art 205, Interior Design
16. Art 206, Crafts
17. Art 201, Advanced Painting and Drawing
18. Courses in Journalism

C. Recommendations regarding special courses.

1. Two suggestions regarding an integrated course were submitted to the Committee. The ideas were similar and considered by the Committee to be the same. The Committee endorsed the idea with enthusiasm. The suggested course is as follows:

It is recommended that an integrated course be introduced. This course should be a truly general education course. Organized along cultural lines the aim would be to present those accomplishments of past cultures that have influenced the present world. Concepts, interrelationships, and cultural interaction would be stressed. The following disciplines would be involved: English, philosophy, art, political science, psychology, music, religion, history, sociology, and science. This course might meet for two hours, carry six hours credit, and meet the general education requirements in the various fields.



2. The English Department presented the following approach to a course which the Committee endorsed:

A rearrangement of the schedule to provide concentrated study of one subject or idea and some integration of courses such as world civilization, speech, and English. The following is an example of a schedule which a student might follow:

Monday, 8:00-9:00	TV presentation of problem or idea of world civilization.
Monday, 9:00-10:00	Directed reading, test, or other activity
Tuesday, 8:00-9:00	TV presentation (English teacher) parallel to Monday's world civilization
Tuesday, 9:00-11:00	Discussion or symposium (teacher directed, student recorder and tape recorder)
Tuesday, 1:00-3:00	Writing laboratory (20-25 students in group) write reports, themes, doing exercises, receiving instruction (see teacher schedule for plan of division and direction).

The teacher schedule for such a program is illustrated. Teachers A (W. C.) and English teacher A spend the entire time preparing the weekly TV program. Teachers B (W. C.), B) English, and B) speech would work thus:



Discussion section (2 hours)

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>
Section 1	B (W. C.)	B (English)	B (Speech)
Section 2	B (Speech)	B (W. C.)	B (English)
Section 3	B (English)	B (Speech)	B (W. C.)

In addition: B (W. C.) teacher would spend one hour each week in directing reading of activity, six hours in individual conference, three hours in committee and in service training.

Note: This time schedule would be altered if these teachers have sophomore courses also.

D. The following were recommended for consideration as possible additions to the curriculum at a later date:

1. Geography	6. Physiology
2. Geology	7. Introduction to statistics
3. Astronomy	8. Introduction to anthropology
4. Oceanography	9. Home economics
5. Biological evolution	10. Library science

E. The above recommendations and suggestions regarding courses are not to exclude other courses for consideration as additions to the curriculum at a later date.



"OPERATION BRAINSTORM"

RECOMMENDATIONS REGARDING BUILDINGS AND EQUIPMENT

I. General Discussion: Recommendations regarding buildings and equipment were presented by individuals and departments. The ideas presented, which the Committee endorsed, are listed:

- A. Language laboratory.
- B. An overhead projector (Vu Graph) for each department.
- C. Buildings to provide ideal conditions for study while on campus.
- D. Recommendations made by the Department of Chemistry.
  - 1. The department should have adequate facilities for students to do individual laboratory work, with separate lockers and sets of equipment under lock -- a separate laboratory with appropriate facilities for General, Organic, and Analytical Chemistry.
  - 2. Classrooms should be provided with blackboards along two walls or sides of it. Laboratories should have one end or side for blackboard.
  - 3. One student assistant for preparing laboratory supplies should be provided for each laboratory.
  - 4. Private offices with necessary facilities should be provided for instructors.
- E. The building and facility needs as submitted by the Biological Science Department are as follows:



Biological Facilities  
(Botany, Zoology, Bacteriology, Comparative Anatomy)

1. Laboratories to set 24 students equipped for individual work. Rooms to be supplied with water, sink, and gas outlets. Electrical outlets to provide artificial light adequate for microscope use. Blackboard to extend across the front of the rooms. Back of the rooms to be shelved and glass enclosed as a showcase for exhibiting biological specimens. Adjoining storage rooms of 300 sq. feet, one wall shelved for microscope storage and ordinary shelving on the other walls.
2. Lecture rooms to have blackboards across the entire front. To be provided with demonstration desk at the front equipped with water, sink, gas, and electricity. The rooms should have darkroom curtains and rear electrical outlet for audio visual aids use.
3. A section of one lecture room, a separate large room, or sections of the corridors should be made available for exhibiting specimens (museum).
4. Facilities will be needed for keeping some small live animals for demonstrations, experimentations, and dissection.
5. The bacteriological store room of about 400 sq. feet to be equipped with steam autoclave, hot air oven, water, gas, drainboard sink and refrigerator. A 36 sq. foot corner of the room to be separately enclosed mostly with glass and provided with steam sterilization, gas and electricity (culture-transfer enclosure).
6. An air-conditioned greenhouse of about 600 sq. feet with attached plant potting and soil sterilization room of about 300 sq. feet. The latter equipped with steam autoclave, soil mixing bins, potting bench and pot and tray racks. An adjoining enclosure of about 500



sq. feet of lattice construction and equipped with mist sprays for growing plants.

F. A description of the space needs of the Speech Department follows. The proposals are based on a projected enrollment of 1000 to 2000 students within the next two years.

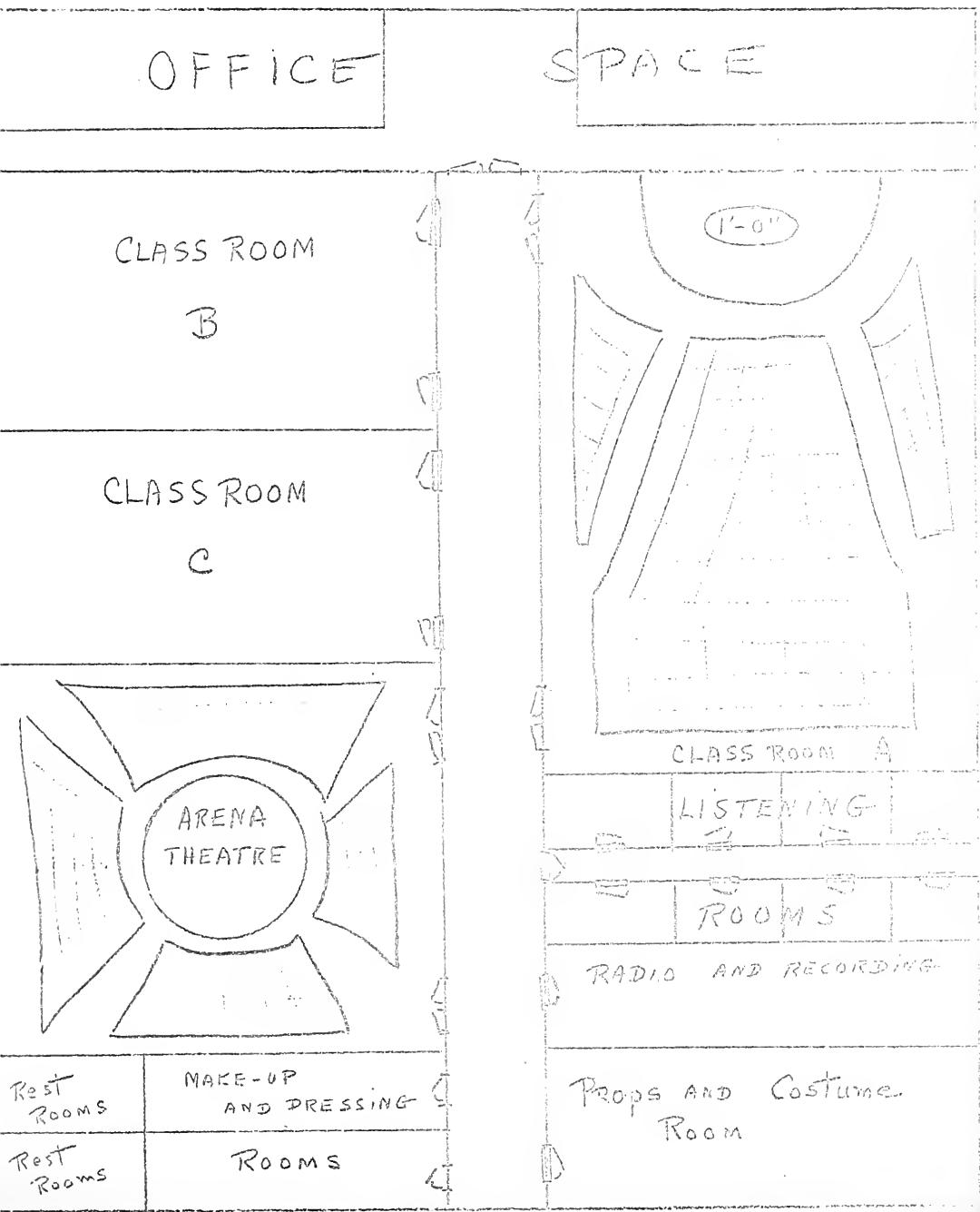
1. Classroom A - seating capacity of 200. This classroom can be used for public speaking, discussion, debate, acting, or reader's theatre groups.
2. Classroom B and C - seating capacity of 30. This room can also be used as a classroom as well as the home for area productions.
3. Props and costume room. Small numbers of props and costumes can be stored here for each production.
4. Listening rooms. Each room should be equipped with a tape recorder. This would enable the student to practice listening to himself and then evaluate his voice, improve through practice, and compare one recording with another. Each room will also be equipped with a speaker controlled by the radio room. This will enable tapes and records to be controlled by a student helper or by the faculty. Each classroom should be equipped with speakers whereby the class could listen to recordings or important speeches.
5. The speech division recommends an all-purpose auditorium with stage described as follows: The stage should be high enough to allow the scenery to be flown. Off-stage facilities for a workshop stagecraft, including electrical saws and apparatus for constructing scenery. Beneath the stage or to the side area of the auditorium facilities for shower, dressing, and makeup rooms, costume, prop, and storage



room. An essential item is a light board on stage with interlocking panels. There should be an intercommunication system from projection room above auditorium to box office, to backstage. This helps to guarantee a smooth production. A diagram of building needs follows:



PROPOSED PLAN FOR CLASSROOM SPACE AND  
FACILITIES FOR SPEECH PROGRAM





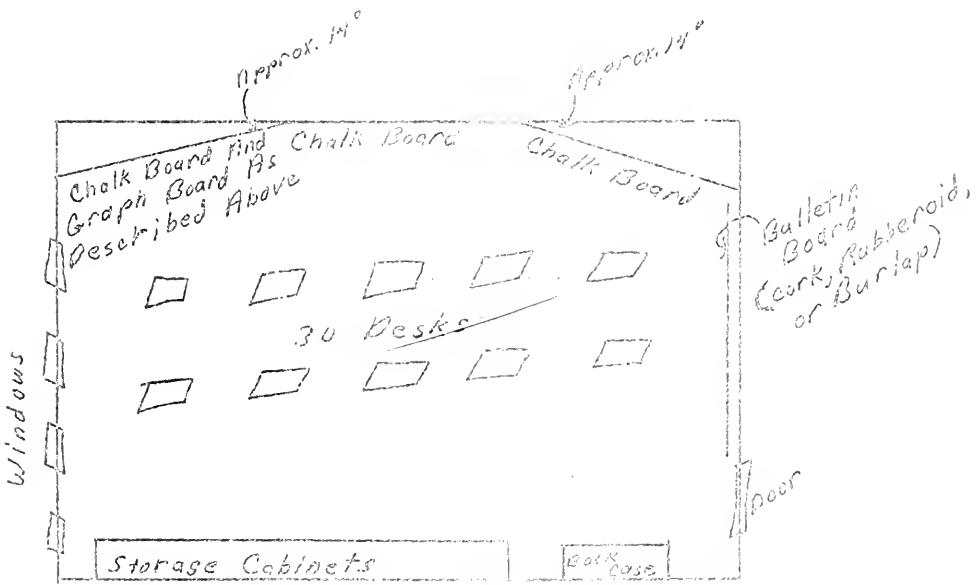
G. The building needs as submitted by the Mathematics Department are as follows:

SUGGESTIONS FOR MATHEMATICS CLASSROOM

1. Chalk board covers entire length of front of the room, which is the longer dimension.
2. Chalk board bent forward at either end as shown. The  $14^{\circ}$  angle shown is the maximum angle desired. Less would be satisfactory. A  $14^{\circ}$  angle would require that if the three sections were to be eight feet long each, the ends of the board would be two feet forward of the center section. The purpose of this feature is to improve visibility from the sides of the classroom.
3. The top of the chalk board should be equipped with sliding hooks for hanging charts.
4. A chalk board with a coordinate graph painted on its surface should be placed over the left hand third of the chalk board and hinged at the top so that it could be swung out of the way when not in use.
5. See attached diagram.



MATHEMATICS CLASSROOM





H. The space and facility needs of the English Department are indicated on the following diagram:



Department of English Education  
English office, classrooms, etc., - January 1911

Year 1911

Offices

Lounge with conference table, comfortable chairs, study couches, screen opaque and slide projector
place for displaying works of art

Individual offices with desk, chairs, filing cases, book shelves, pencil sharpener, coatracks

Bulletin board on lounge wall

(Sound-proofed walls)

Typist  
for teacher

official bulletin board

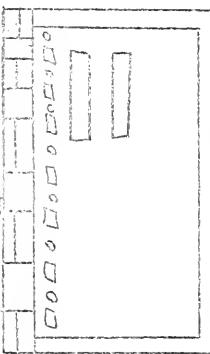
writing

laboratory

(bookshelves,

filling cases

around  
walls)



Furniture: carpet type tables, chairs, long tables, chairs, bookcases

Equipment:

Filing cases

opaque, slide, movie projectors, screen dictionaries, atlases,

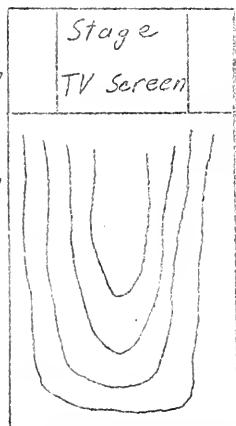
2 machines to be invented

1 for answering questions about medicine

1 for dictionary study

Auditorium  
for English  
students

(or for  
integrated  
W.C. - E -  
Speech)



U shaped chair-table arrangement on three or four levels, chairs swivel

Classrooms

Classrooms provided with system for mixing in recordings, with maps, chalk-boards, chairs (easily converted to conference type arrangement)



I. The building needs of the Department of Music are given in the following diagram:



Wm. C. McRae



1. All rooms sound-proofed and fire-conditioned  
2. Rises to be carpeted. 3. Direct lighting  
3. Pianos in each room.



J. The Physical Education Department submitted an extensive report on buildings and facilities. These follow:

1. Inside Facilities

a. Gymnasium

(1) Playing floor area

Tongue and groove hard maple floor

Seating capacity, 1500 to 2000

Two 50' x 90' basketball courts

Main court down middle

Medart telescopic bleachers each side

Main court backboards rectangular

Practice court backboards fan shapes

Rubber mat rolled in front of bleachers

Padding on wall behind backboards

Adequate ventilation and circulation (by natural air flow and fans)

Heating in playing area and dressing rooms

Natural light on north and south sides of gym

Saw-toothed skylight if necessary

Avoid direct sunlight

Adequate artificial lighting

Flexible lighting for other functions

Exit lights

Emergency lighting

Electrical outlets on their own circuits



Provisions for:

Basketball backboards, climbing ropes and ladders, traveling riggs, bulletin boards, public address system, scoreboard and clock, punching bag, scorers tables and outlets, stall bars, pulley weights, mat and mat covers, portable mat racks, phonograph, chalk boards, parallel bars, horses, piano, spring board, table tennis tables, speaker's platform, etc.

Floors marked for all activities

Drinking fountains and cuspidors in flush wall fixtures

Gym apparatus mountings installed

Locked lighting controls

b. Dressing rooms:

Vitreous tile and abrasive added or scarified quarry tile floor

Good drainage for easy cleaning and drying

Hard, smooth impervious walls (tile block or glazed)

Good lighting

Proper heating and ventilation

Benches and clothes-hanging racks

Mirrors

Wash basin in dressing rooms

Electrical outlets

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LIBRARY

Junior College of Broward County  
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